

CLAIMS

1. A luminous body comprising a housing (10) with a light emission surface (4) and a plurality of light sources (2) arranged in the housing (10), wherein the housing (10) comprises at least a first optical medium (1) with a first optical scattering power, into which medium (1) the light of the light sources (2) is coupled, and at least a second optical medium (5) with a second optical scattering power, such that the light propagating in the second optical medium (5) is at least substantially coupled thereinto from the first optical medium (1), and wherein the scattering power of at least one of the media is chosen with a view to influencing the flow of light in the housing (10) such that a predefinable brightness distribution of the light over the light emission surface (4) is achieved.

2. A luminous body as claimed in claim 1, with at least one layer (3) by means of which the second optical medium (5) is screened off at least substantially against a direct incidence of the light originating from a light source (2).

3. A luminous body as claimed in claim 2, wherein the layer (3) is a layer that reflects on both sides.

4. A luminous body as claimed in claim 1, wherein the second optical medium (5) is introduced into a region between at least one light source (2) and the light emission surface (4).

5. A luminous body as claimed in claim 1, wherein the first optical medium is an optical waveguide plate (1), and the light sources (2) are arranged in at least one cavity (8) of said optical waveguide plate (1).

6. A luminous body as claimed in claim 5, wherein the scattering power of the second optical medium (5) is chosen such that it compensates at least substantially for the

reduction in the flow of light in the first optical medium (1) caused by at least one of the cavities (8) provided in the first optical medium (1).

7. A luminous body as claimed in claim 5, wherein the second optical medium  
5 (5) is introduced into at least one region between at least one cavity (8) and the light emission surface (4).

8. A luminous body as claimed in claim 1, wherein the second optical medium  
10 (5) comprises light-scattering particles.

9. A luminous body as claimed in claim 8, wherein the light-scattering particles  
are globules with an optical refractive index different from that of the surrounding material.

10. A luminous body as claimed in claim 8, wherein the light-scattering particles  
15 are regions created by a material change caused by the action of at least one laser beam.